Madison, Wisconsin March 17, 1948/

Dear Jacques,

My work has reached the point where it is imperative that I investigathe lactase content of E. coli K-12. I would appreciate very much hearifrom you any details of the methods you used successfully to prepare active cell-free extracts of coli ML. Also, have you made any endeavour on the K-12 strains that I sent you? There are very few satisfactory reports in the literature on the preparation of bacterial disaccharase.

In my last letter, I mentioned that I may have sent you W-169 and W-172. I hope that this is so as I have lost these interesting cultures If you did receive them, would you be so kind as to send transfers back to me?

March 22. Since writing the above, I have prepared an active crude extract from mutant W-254 which is lactose-positive, galactose negative. This mutant accumulated monose (presumably galactose) during the fermentation of lactose, so that the utilization of lactose can be followed by Barfoed's procedure-- reduction of copper in acetic ac solution. The extract was prepared by grinding 30 g. wet Sharples paste of the cells with 60 g. pyrex powder in a conical pyrex mill, and extracting with saline. The crude extract is very active, and I am setting out to purifit, as well as to see whether other methods of extraction more applicable to large scale production can be attachmental developed. I am fortunate hat Wisconsin in having nearly pilotiplant facilities for the production of cells if need be. I suppose at the Institut you have the same. I am now all the more interested to learn what your procedures have been.

Yours sincerely

ESCOND FOLL